

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	530	(417/554).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/09/18 07:37
L3	1	L2 and damp\$5 near ring	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/09/18 07:37
L4	8	L2 and damp\$5 ring	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/09/18 07:39
L5	472	(137/533.11).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/09/18 07:40
L6	0	L5 and dampen\$5 near ring	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/09/18 07:41
L7	0	L5 and dampen\$5 ring	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/09/18 07:41
L8	239	dampen\$5 near ring	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/09/18 07:49
L9	27	dampen\$5 near ring pump	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/09/18 07:52
L10	170	(reduce or less\$4 or minimi\$5) near water near hammer\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/09/18 07:53
L11	0	oil near well near pump dampen\$4 near ring	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/09/18 08:58
L12	2	well near pump dampen\$4 near ring	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/09/18 08:58
L13	7	("1852242" "2196993" "2464095").PN. OR ("4886428").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/18 09:02
L14	6	well near pump elast\$4 near ball	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/18 09:02

EAST Search History

L15	424	(("1043279" "1043568" "1097955" "1163535" "1165105" "1268964" "1303091" "1313359" "1378268" "1401440" "1409450" "1423935" "1483369" "1488987" "1493267" "1499690" "1543488" "1545475" "1549175" "1574922" "1588705" "1623239" "1667900" "1674815" "1697431" "1714434" "1720672" "1741643" "1765864" "1785834" "1832346" "1840432" "1865912" "1867933" "1915771" "1948325" "0118496" "0188229" "0195253" "2002140" "2020550" "2039621" "2067774" "2079996" "2101218" "2119763" "2138002" "2141957" "2166612" "2169703" "2171479" "2172636" "2178822" "2186411" "2191380" "2194154" "2215558" "2221204" "2242166" "2245501" "2262126" "2262128" "2263144" "2281899" "2296821" "2298834" "2338370" "2350973" "2368400" "2368928" "2376538" "2384173" "2397419" "2403987" "2423653" "2430623" "2442121" "2460179" "2473864" "2497348" "2527673" "2551434" "2562584" "2564240" "2576924" "2583111" "2590245" "2605712" "2609258" "2642803" "2646128" "2653545" "2668500" "2678605" "2684639" "2689535" "2715441" "2748712" "2764940" "2800859" "2817298" "2818022" "2821141" "2821933" "2837029" "2874436" "2885968" "2897768" "2905099" "2921531" "2931304" "2952211" "2971581" "2982355" "0208285" "0278751" "3015280" "3040811" "3064580" "3066738" "3069824" "3123007" "3132568" "3136265" "3140667" "3143080" "3169025" "3172469" "3175512" "3181614" "3182598" "3212444" "3283821" "3303855" "3304871" "3322069" "3372756" "3414057" "3436084" "3453963" "3479958" "3502028" "3517741" "3578886" "3586464" "3592567" "3594103" "3595101" "3614984" "3627045" "3653786" "3687202" "3697194" "3703926" "3765482" "3773441" "3777626" "3865516" "3915602" "3918845" "3941510" "3945774" "0035577" "0388943" "4013387" "4026661" "4040486" "4049365" "4173451" "4174928" "4190113" "4214854" "4234294" "4260020" "4268227" "4293283" "4295801" "4383803" "4390326" "4403919" "4414808" "4462763" "4478285" "4480685" "4493383" "4516470" "4518036" "4540348" "4643325	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/09/18 09:42
9/18/2006 11:55:00 AM		Page 2				
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EAST Search History

L16	13	L15 and elast\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/09/18 09:37
L17	0	L15 elastin near ball	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/09/18 09:42
L18	0	L15 elast\$4 near ball	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/09/18 09:43
L19	0	(137/153.15).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/09/18 10:47
L20	0	(137/153.15).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/09/18 10:47
L21	258	(137/533.15).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/09/18 10:56
L22	379	(137/533.13).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/09/18 11:25
L23	654	(166/105).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/09/18 11:38
L24	192	(166/107).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/09/18 11:42
L25	49	(166/108).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/09/18 11:44
L26	76	(166/109).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/09/18 11:44
L27	343	(137/533).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/09/18 11:50

EAST Search History

L28	1	well near pump (tube or pipe or shell) elas\$5 dampe\$5 near ring piston near (stop or block) valve plug	US-PGPUB	AND	ON	2006/09/18 11:53
L29	1	well pump (tube or pipe or shell) elas\$5 dampe\$5 near ring piston near (stop or block) valve plug	US-PGPUB	AND	ON	2006/09/18 11:53
L30	1	well pump (tube or pipe or shell) elas\$5 dampe\$5 ring piston near (stop or block) valve plug	US-PGPUB	AND	ON	2006/09/18 11:53
L31	90	well pump (tube or pipe or shell) elas\$5 dampe\$5 ring piston (stop or block) valve plug	US-PGPUB	AND	ON	2006/09/18 11:53
S1	200	(417/555.2).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/09/16 18:38
S2	22	("2371846" "3074352" "3479958" "3953155" "3966360" "4531584" "4557668" "4565496" "4643258" "4673338" "4968226" "5141411" "5653286" "5660534" "6015010").PN. OR ("6273690").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/14 16:11
S3	82	417/555.2	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/09/16 18:39
S4	200	(417/555.2).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/09/16 18:39
S5	4	S4 elastic ring	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/09/16 18:44
S6	8	pump ball dampe\$5 near ring piston valve	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/09/18 07:31

Interference Search

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L28	1	well near pump (tube or pipe or shell) elas\$5 dampe\$5 near ring piston near (stop or block) valve plug	US-PGPUB	AND	ON	2006/09/18 11:53
L29	1	well pump (tube or pipe or shell) elas\$5 dampe\$5 near ring piston near (stop or block) valve plug	US-PGPUB	AND	ON	2006/09/18 11:53
L30	1	well pump (tube or pipe or shell) elas\$5 dampe\$5 ring piston near (stop or block) valve plug	US-PGPUB	AND	ON	2006/09/18 11:53
L31	90	well pump (tube or pipe or shell) elas\$5 dampe\$5 ring piston (stop or block) valve plug	US-PGPUB	AND	ON	2006/09/18 11:53